In the Claims:

Please amend the claims as follows:

1. (currently amended) A method for providing network services in an enterprise network, wherein said enterprise network includes a plurality of forwarding domains, comprising: obtaining at least one end to end network service parameter from an application program; communicating said at least one end to end network service parameter to a plurality of network service modules, each of said network service modules associated with a respective one of said forwarding domains; and

establishing, by said network service modules, a communication paths within each of said forwarding domains, said communication paths within each of said forwarding domains together providing an end to end communication path for a single virtual connection across all of said forwarding domains, such that wherein said communication paths within said forwarding domains are each required to provides network performance for communications over said virtual connection reflecting said at least one end to end network service parameter within their respective forwarding domains.

2. (currently amended) The method of claim 1, further comprising:

obtaining a network service request from said application program, wherein said network service request includes said at least one end to end network service parameter;

determining, by said network service modules, whether said communication paths within each of said forwarding domains can be established to provide said network performance reflecting said at least one end to end network service parameter; and

in the event of a determination by said network service modules that said communication paths within each of said forwarding domains cannot be established to provide said network performance reflecting said at least one end to end network service parameter, denying said network service request from said application program.

- 3. (original) The method of claim 1, further comprising establishing, by said network service modules, forwarding information enabling data packets to be forwarded between said communication paths within said forwarding domains.
- 4. (currently amended) The method of claim 1, further comprising:

determining, by each of said network service modules, network service capabilities of networking devices within said respective associated one of said forwarding domains; and wherein said establishing of said communication paths within each of said forwarding domains is responsive to said capabilities of said networking devices.

5. (currently amended) The method of claim 2, further comprising:

determining, by each of said network service modules, network service capabilities of networking devices within said respective associated one of said forwarding domains; and wherein said determining whether said communication paths within each of said forwarding domains can be established to provide said network performance reflecting said at

least one end to end network service parameter is responsive to said capabilities of said networking devices.

6. (currently amended) The method of claim 1, further comprising:

receiving, by an application server program associated with said application program, a request for application service by an application client associated with said application program; authenticating, by said application server program, said request for application service by said application client; and

in the event that said application server program authenticates said request for application service, obtaining a network service request from the application server portion of said application program, wherein said network service request includes said at least one end to end network service parameter.

7. (original) The method of claim 3, further comprising:

maintaining, by each of said network service modules, an adjacency data structure describing adjacency relationships of said forwarding domains in said enterprise network; and wherein said establishing of said forwarding information enabling data packets to be forwarded between said communication paths within said forwarding domains is responsive to said adjacency relationships.

8. (original) The method of claim 1, wherein said at least one end to end network service parameter comprises an amount of guaranteed bandwidth.

- 9. (original) The method of claim 1, wherein said at least one end to end network service parameter comprises a level of acceptable packet loss.
- 10. (original) The method of claim 1, wherein said at least one end to end network service parameter comprises an indication of network reliability.
- 11. (original) The method of claim 1, wherein said at least one end to end network service parameter comprises an indication of network delay.
- 12. (currently amended) The method of claim 1, further comprising, subsequent to said establishing of said communication paths within each of said forwarding domains, monitoring network performance of said communication paths within each respective one of said forwarding domains by said associated network service module.
- 13. (currently amended) A system for providing network services in an enterprise network, wherein said enterprise network includes a plurality of forwarding domains, comprising:

a plurality of network service modules, each of said network service modules associated with a respective one of said forwarding domains, and wherein said network service modules are operative to:

obtain at least one end to end network service parameter from an application program; and

establish-a communication paths within each of said forwarding domains, said communication paths within each of said forwarding domains together providing an end to end

communication path for a single virtual connection across all of said forwarding domains, such that wherein said communication paths within said forwarding domains are each required to provides network performance for communications over said virtual connection reflecting said at least one end to end network service parameter within their respective forwarding domains.

14. (currently amended) The system of claim 13, further comprising:

a software module operative to obtain a network service request from said application program, wherein said network service request includes said at least one end to end network service parameter; and

wherein said network service modules are further operative to determine whether said communication paths within each of said forwarding domains can be established to provide said network performance reflecting said at least one end to end network service parameter; and

wherein said software module operative to obtain said network service request is further operable, in the event of a determination by said network service modules that said communication paths within each of said forwarding domains cannot be established to provide said network performance reflecting said at least one end to end network service parameter, deny said network service request from said application program.

15. (original) The system of claim 13, wherein said network service modules are further operative to establish forwarding information in a plurality of networking devices enabling data packets to be forwarded between said communication paths within said forwarding domains.

16. (currently amended) The system of claim 13, wherein said network service modules are further operative to:

determine, by each of said network service modules, network service capabilities of networking devices within said respective associated one of said forwarding domains; and wherein said establishment of said communication paths within each of said forwarding domains is responsive to said capabilities of said networking devices.

17. (currently amended) The system of claim 14, wherein said network service modules are further operative to:

determine network service capabilities of networking devices within said respective associated one of said forwarding domains; and

wherein said determination of whether said communication paths within each of said forwarding domains can be established to provide said network performance reflecting said at least one end to end network service parameter is responsive to said capabilities of said networking devices.

18. (currently amended) The system of claim 13, further comprising:

a program module, operative to obtain a network service request from an application server portion of said application program, wherein said network service request includes said at least one end to end network service parameter in the event that said application server program authenticates a request for application service from an application client.

19. (original) The system of claim 14, wherein said network service modules are further operative to:

maintain an adjacency data structure describing adjacency relationships of said forwarding domains in said enterprise network; and

wherein said establishment of said forwarding information enabling data packets to be forwarded between said communication paths within said forwarding domains is responsive to said adjacency relationships.

- 20. (original) The system of claim 13, wherein said at least one end to end network service parameter comprises an amount of guaranteed bandwidth.
- 21. (original) The system of claim 13, wherein said at least one end to end network service parameter comprises a level of acceptable packet loss.
- 22. (original) The system of claim 13, wherein said at least one end to end network service parameter comprises an indication of network reliability.
- 23. (original) The system of claim 13, wherein said at least one end to end network service parameter comprises an indication of network delay.
- 24. (currently amended) The system of claim 13, wherein said network service modules are further operative to, subsequent to said establishing of said communication paths within each of

said forwarding domains, monitor network performance of said communication paths within each respective one of said forwarding domains.

25. (currently amended) A system for providing network services in an enterprise network, wherein said enterprise network includes a plurality of forwarding domains, comprising:

means for obtaining at least one end to end network service parameter from an application program;

means for communicating said at least one end to end network service parameter to a plurality of network service modules, each of said network service modules associated with a respective one of said forwarding domains; and

means for establishing, by said network service modules, a communication paths within each of said forwarding domains, said communication paths within each of said forwarding domains together providing an end to end communication path for a single virtual connection across all of said forwarding domains, such that wherein said communication paths within said forwarding domains are each required to provides network performance for communications over said virtual connection reflecting said at least one end to end network service parameter within their respective forwarding domains.